

Compute the matrix representation of T relative to the bases B and C .

Elabore la matriz de representacion de T relacionada con las bases B y C.

$$T: P_3 \mapsto C^3, \quad T(a + bx + cx^2 + dx^3) =$$

$$\begin{pmatrix} 2a - 3b + 4c - 2d \\ a + b - c + d \\ 3a + 2c - 3d \end{pmatrix}$$

$$B = \{1, x, x^2, x^3\}$$

$$C = \left\{ \begin{vmatrix} 1 \\ 0 \\ 0 \end{vmatrix}, \begin{vmatrix} 1 \\ 1 \\ 0 \end{vmatrix}, \begin{vmatrix} 1 \\ 1 \\ 1 \end{vmatrix} \right\}$$